

Centuri

1982 Flying Model Rocket Catalog



SPACE SHUTTLE
COLUMBIA
(PAGE 9)

Includes Special
BONUS COUPONS
for
merchandise or
discounts on
your next order

Catalog No. 821/CM

NASA PHOTO

\$1.00

ROCKET TIMES

Spring, 1982 #23

Centuri

NARAM-23

The National Association of Rocketry held the 23rd U.S. Model Rocket Championships (NARAM-23) from August 3 through 7, 1981 at Allentown College in Center Valley, PA. This was the second time NARAM had visited Allentown College; in 1976 NARAM-18 was held on the same site.

Rocketeers from all over the United States gathered for the week-long activities of competition and good times. Centuri was represented and put on a spectacular demonstration on Sunday, August 2nd. Along with a selection of their most popular models, Centuri flew many of their new products. (See photo of Jayhawk liftoff.)

NARAM is really the final opportunity for the best competitors in the United States to win points toward the national championships. It is the most important meet of the year and competition was fierce. Twelve events were held at NARAM this year, including 1/2A International Streamer Duration, A Helicopter Duration, B Altitude, B Payload, 1/2A Boost/Glider Duration, E Free-Flight Boost/Glider Duration, E RC Boost/Glider Duration, 1/2A International Parachute Duration, A Rocket/Glider Duration, D Scale Altitude and Research and Development.



Chris Mund of New Jersey reads his Boost/Glider.

—Photo ©Alan Williams



Sally Loman with her Parachute Duration model.

—Photo ©Alan Williams

The national champions were chosen in three age divisions. They are: Pat Peterson, Schaumburg, IL (A Division), George Riebesehl, Jr., Schaumburg, IL (B Division), and Art Rose, New City, NY (C Division).

Anyone can attend a NARAM to watch the contest and competition is open to all NAR members. Maybe someday, you'll compete in a NARAM too. The first step is to join the NAR (See page F for mem-



Centuri Magnum D Jayhawk lifts off during Sunday's demonstration flights.

—Photo ©Alan Williams

bership application). After that, join an NAR section and start competing. You may end up a national champion!

Cartoon Contest

This issue's Cartoon Contest winner is Steve Rowles of Center Valley, PA. Steve wins a Centuri SSV Scorpion Super Kit as his mystery prize.

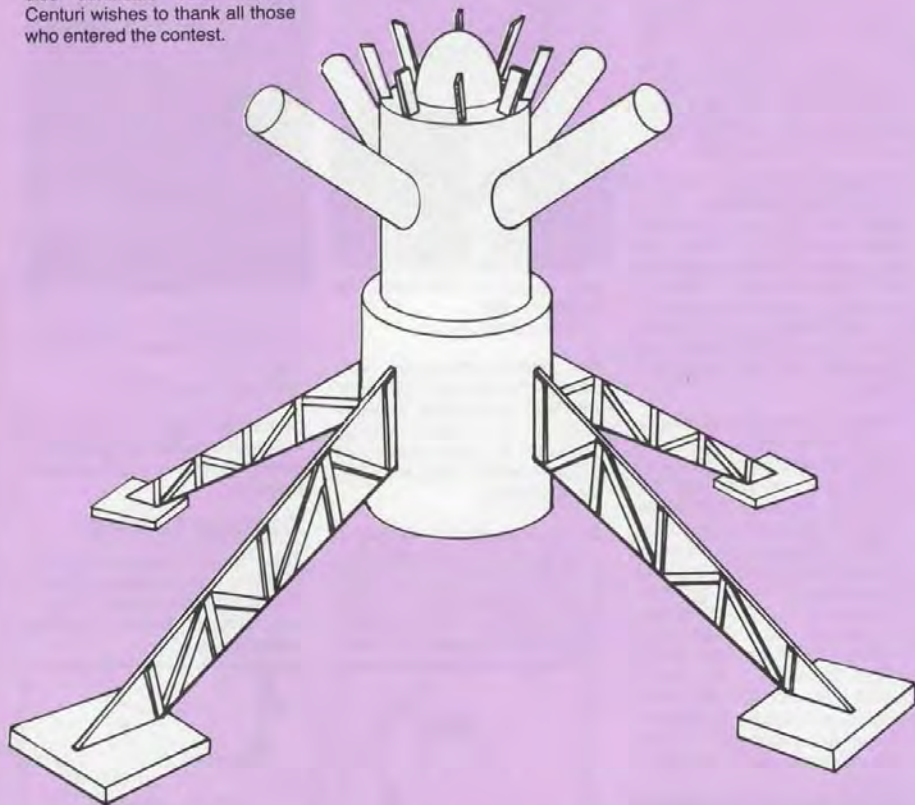


PAGE B

Display Stand Contest

The following five entries were judged the best in the Centuri Display Stand Contest. Each winner will receive a \$25.00 merchandise certificate from Centuri. Centuri wishes to thank all those who entered the contest.

Stuart Tapper, Akron, OH
Paul Mobley, Lake Preston, SD
Arnold Garcia, Tampa, FL
Collin McNally, Fort Quappelle, Sask., Canada
Sam Lowe, Louisville, KY



Blackbird Data Contest

Titanium was the answer to the special Blackbird Data Contest in Rocket Times. The following 10 entries were the first correct entries received and each will receive a Magnum D Hornet kit.

Fred Edwards, Staley, NC
Brian Davis, Waxahachie, TX
Sam Shearman, Longwood, FL
Todd Berry, Trinchera, CO
Brian Francis, Williamsburg, NY
Brad Miller, Edinburg, PA
Tom Swennes, Portland, OR
Robert Kirk, Roswell, GA
John Kim, Long Beach, CA
Mike Morgan, Boyne City, MI

Antique Spaceship Contest

The following rocketeers answered our Antique Spaceship contest correctly. Each will receive a Space Shuttle kit as their prize.

John Titus, Yarmouth Port, MA
Wong Chi Ling, San Francisco, CA
Randy Turnbow, Parker, AZ
Ronald Boehme, Dover, DE
Chris Danforth, Marblehead, MA
Marc Mettes, Chesterfield, MO
Scott Howard, Cordele, CA
John Hood, Knoxville, TN
Matt Cesnik, Speedway, IN
Raymond Miller, Fairchance, PA

Barton Blubaugh, Macedonia, PA
John Urwin, Seneca Falls, NY
John Patrick, Decatur, IL
Jay Urania, Norfolk, VA
Mike Bleyle, Hudson, OH
Kevin Hobbes, Hunover, CN
Alex Artega, McAllen, TX
Fred Gentry, Winston Salem, NC
John Vegher, San Pedro, CA
Doug Sandorf, Richfield, OH

PAGE C



Photo Contest

The Winner of the photo contest in this issue is Mark Baumann of Galena, KS. Mark's photo is of a 1/36th scale Mercury Atlas he constructed along with a scale gantry made of balsa sticks and blocks. His prize is a \$25 Centuri Merchandise Certificate.

Design Contest

You could be a winner in Centuri's Design Contest. Build your own imaginative rocket from Centuri parts.

CONTEST RULES

1. Entries must consist of a photograph of the model and a drawing which includes a parts list and your name and address.
2. Entries must be flight worthy and not copies of kit designs produced by model rocket manufacturing companies or other published designs.
3. Entries become the property of Centuri and cannot be returned.

4. Employees of model rocket companies and their families are not eligible.
5. Entries judged on originality, neatness and completeness.
6. Do not send the actual model.
7. Send as many DIFFERENT entries as you like, but no duplicates.
8. There is no deadline. A winner is selected twice yearly and notified by mail.
9. Specify which prize you want.

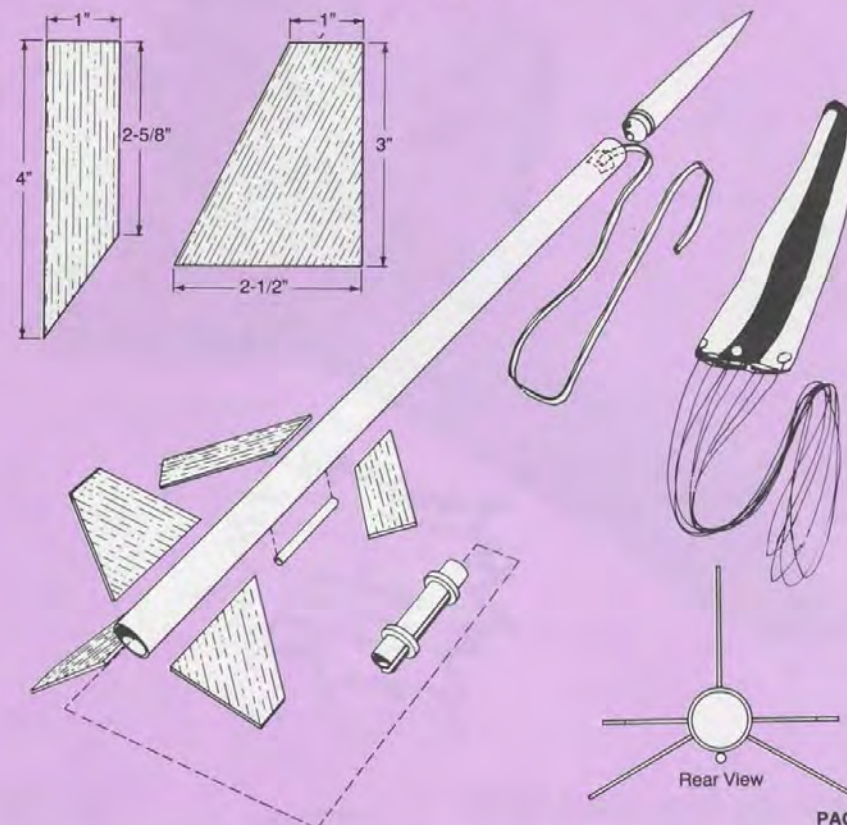
10. Send your entry to:
Design Contest
Centuri
P.O. Box 1988
Phoenix, AZ 85001

PRIZE

The winner will receive a prize of his or her choice . . . any ONE product from the current Centuri catalog! It can be any model rocket product we have . . . right up to the fantastic Saturn V.

The winner of the Design Contest is Robert Johnson of Chillicothe, IL. Robert chose the Apollo Saturn V as his prize.

ALPHA-C



PAGE D



1982 Flying Model Rocket Catalog



SPACE SHUTTLE
COLUMBIA
(PAGE 9)

**Catalog
No. 821**

NASA PHOTO

\$1.00

VIKING EXPLORER Starter Kit

Skill Level One

Recommended for Beginners

Model Rocketry's Lowest Priced Starter Kit

Here's a low-cost way to get started in model rocketry with our popular Viking model rocket and Lighting Bolt launcher!



Requires 6 or 12
volt lantern battery and
glue—not included.

Viking Model Rocket features parachute recovery, die-cut fibre fins, plastic nose cone, kit decal and spectacular flights over 600 feet. No painting required.

Lightning Bolt Launcher fits any standard 6 or 12 volt lantern battery (not included) and includes launch pad with blast deflector plate and 1/8" x 36" two-piece launch rod. Futuristic hand-held launch controller features arming light, safety key and ignition button, plus launch cable with micro-clips.

Includes two powerful Enerjet model rocket engines plus igniters and parachute recovery wadding for your first flights.

Engines: 1/2A6-2, A8-5 (First Flight), B4-6, B6-6, C6-7



Prod. No. 5204

ONLY \$9.95

Welcome to Centuri Model Rocketry!

Centuri

In 1982 the Space Shuttle becomes fully operational, and you can join in the excitement of the new Space Age with Centuri Flying Model Rockets.

The pages of this catalog are filled with the most exciting model rockets we've ever offered—all models you can build and fly yourself. Once you've experienced the thrill of seeing a model you've built rocket into the sky, streak to altitudes over 1,000 feet and return gently to Earth on a brightly colored parachute, you'll know this is the hobby for you.

This year we have four exciting new kits as well as the Viking Explorer Starter Set—the lowest priced starter set in the industry. Also, we're introducing the new Power-Pulse™ Launch Controller (see page 27) which uses the new Polaroid® Pola-Pulse™ 6 volt battery for low cost launchings. This is the launch system of the future!

Start your own space program today, and join NASA in exploring the universe—right from your own neighborhood!

IMPORTANT

Most model rocket kits are constructed of light-weight hobby materials such as balsa wood, paper tubing and plastic. Unless otherwise stated, all the model rocketry kits in this catalog are hobby kits requiring assembly. Launch system, engines, launch supplies, glue, batteries, paint, tools and finishing materials are not included. Recommended for ages 10 to adult. Adult supervision is suggested for those under 12 years of age when flying model rockets.

SKILL LEVELS

Skill Level One—Very Simple—Recommended for beginners

Skill Level Two—Fairly Easy—Recommended for individuals with model building experience.

Skill Level Three—Average Challenge—Recommended for the experienced model builder.

Skill Level Four—Very Challenging—Recommended for the advanced model builder.

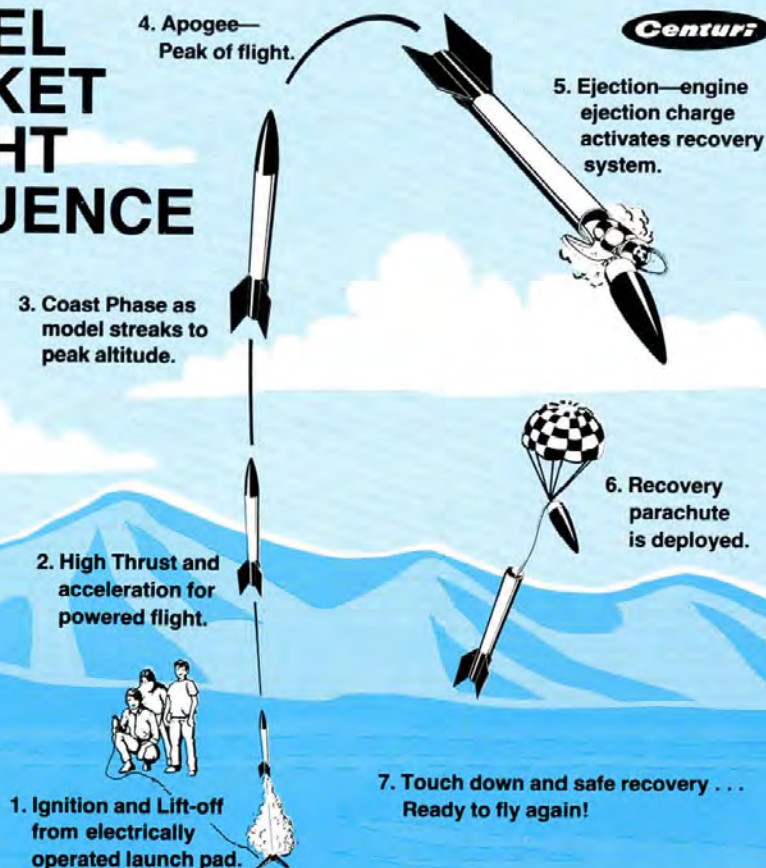
Skill Level Five—Extremely Challenging—Recommended for the expert model builder.

The model rocket kits in this catalog require assembly unless otherwise stated. The degree of construction and operation challenge varies from kit to kit, so all Centuri model rockets are rated by Skill Level to make it easy to choose the right project. In most cases, it is recommended that rocketeers not skip skill levels. Unless you are an extremely experienced modeler, you should complete a Skill Level One kit before building a Skill Level Two . . . and you should build a Skill Level Two before attempting a Skill Level Three . . . and so on.

All prices in this catalog are subject to change without notice.



MODEL ROCKET FLIGHT SEQUENCE



USING YOUR CENTURI CATALOG

Each kit or item listed in the catalog has certain information with it that will be helpful to you in using the item. Each kit listing contains the following information.

1. Kit name
2. Skill Level—All kits in this catalog are grouped by Skill Level.
3. Special features of the kit.
4. Specifications on length, diameter, weight and wing span where indicated.
5. Engine types recommended for use in the kit.
6. Product number which should always be used when ordering.
7. Price of kit (or see price list).
8. Kit Feature Symbols indicate the following kit features:
 - Parachute & size
 - Quick-Release Engine Mount
 - Plastic Nose Cone
 - Kit Decal
 - D/C Parts
 - Balsa Nose Cone
 - Streamer Recovery
 - Plastic Fin Unit

Join Us On The Centuri Aerospace Team

Here's why you should join the Centuri Aerospace Team:

1. Free Catalog
2. Special CAT Membership Card
3. Iron-on shirt insignia
4. Membership includes a copy of our Club Guide
5. C.A.T. Decal Sheet
6. C.A.T. Wall Certificate
7. C.A.T. Field Box Sticker



Join the fastest growing group of model rocketeers in the U.S.!

C.A.T Membership Packet

Product No. 5460 \$2.00

PUBLICATIONS

E.T.V. MODEL BOOK

by Robert Schleicher
Now you can build exciting extraterrestrial vehicles. Learn all the latest techniques for constructing space and special effects models. 181 pages filled with photographs.

Prod. No. 5479 \$8.95

Basics of Model Rocketry

by Doug Pratt
A very complete introduction to the hobby of model rocketry. Pratt explains the fundamentals in clear, concise form. Filled with photos.

Prod. No. 5478 \$6.00

TECH INFO REPORTS

Everything you need to know about Rocket Stability (TIR-30). Center of Pressure (TIR-33), and Altitude Performance (TIR-100).

TIR-30 (16 pages)
Prod. No. 81903 \$1.25

TIR-33 (36 pages)
Prod. No. 81904 \$1.25

TIR-100 (40 pages)
Prod. No. 81906 \$1.25



EDUCATOR'S GUIDE

Teacher's guide for rocketry in the classroom. Includes knowledge tests and suggested curriculum. 64 pages.

Prod. No. 81916 \$2.00

ROCKETEER'S GUIDEBOOK

The good basic reference for all rocketeers. Info from "A to Z." Richly illustrated with charts & photos. 36 pages.

Prod. No. 81900 \$1.25

FREE WITH C.A.T. MEMBERSHIP!

CLUB GUIDE

The Centuri Club Guide is filled with useful information about rocket clubs. Topics covered include: how to organize, running a club range, publicity and growth, club activities, publishing a newsletter, funding and working with authorities. Rocketeers starting their own rocket club, as well as established clubs, will find solid help in this manual. Indispensable for teachers and youth leaders and all club libraries. 28 pages, 53 illustrations.

Prod. No. 81896 \$1.00



EAGLE POWER

Model Rocketry Outfit



Battery not included.

EAGLE POWER will start you off right in the exciting hobby of model rocketry!

Engines: A8-3 (First Flight), B4-6, B6-6, B8-5, C6-7



Prod. No. 5404 ONLY \$16.95

Skill Level One—Recommended for Beginners

EAGLE POWER is our most popular outfit and contains everything you'll need to get off to a flying start in model rocketry! Includes the Screaming Eagle model rocket kit, deluxe Powr-Pad launcher, 2 powerful Enerjet model rocket engines, igniters, wadding, glue and special Mini-Manual of Model Rocketry.

Screaming Eagle model rocket requires no painting! All parts are pre-colored for fast assembly. The Screaming Eagle features a molded plastic fin unit and nose cone, parachute recovery and special stick-on kit decals! Capable of flights over 1,000 feet, the Screaming Eagle is the ideal beginner's rocket and a reliable model for the experienced rocketeer.

The deluxe Powr-Pad is designed to provide lasting service over many years. Using a standard 6 volt lantern battery for power the Powr-Pad includes a special tilter assembly to allow you to compensate for slight winds, steel blast deflector, handy carrying handle, 1/8" x 36" two-piece launch rod plus launch controller, launch cable and micro-clips.

BIG SHOT

Skill Level One—Recommended for Beginners

Model Rocketry Outfit

Our biggest and best starter kit, the **BIG SHOT** features both the Screaming Eagle and Excalibur model rocket kits, along with the deluxe Powr-Pad launcher.



Battery and finishing supplies not included.

The **Screaming Eagle** is easy to build yet impressive in the air. All parts are pre-colored so no painting is necessary. Plastic nose cone and fin unit make construction and flying easy. The **Excalibur** is the next step for the beginning rocketeer. The **Excalibur** features plastic nose cone and adapter unit, die-cut fibre fins, kit decal and 12 inch parachute recovery.

The deluxe **Powr-Pad** launcher fits on top of any standard 6 volt lantern battery. Special features include special tilter assembly to compensate for wind, steel blast deflector, handy carrying handle, 1/8" x 36" two-piece launch rod plus hand-held launch controller featuring safety key, arming light and launch button.

Big Shot gets you into the air in a big way!

Engines:

Screaming Eagle: A8-3 (First Flight), B4-6, B6-6, B8-5, C6-7

Excalibur: A8-3 (First Flight), B4-4, B6-4, B8-5, C6-5

Screaming Eagle:

Excalibur:

Prod. No. 5406 Only \$24.95

Thunder Hawk Outfit

Skill Level 1—Recommended for Beginners

Get going in model rocketry with this starter set featuring one of Centuri's most popular rockets—the Thunderhawk. This easy-to-build kit features a plastic nose cone and die-cut balsa fins. Parachute is included for recovery.

The launch system fits over a standard 6 or 12 volt lantern battery and features round blast deflector plate, and 1/8" x 36" long 2 piece launch rod. Futuristic handheld controller features arming light, safety key and ignition button plus launch cable with micro-clips.

BONUS!
Includes 2
Extra Engines
FREE!
Total of 5 engines.

Also included are three Enerjet model rocket engines, Sure-Shot II igniters, recovery wadding and complete instructions. Everything you need to get started today.

(Requires 6 or 12 volt lantern battery, glue and paint—not included.)

Engines: 1/2A6-2, A8-3, B4-4, B6-4, B8-5, C6-7



Prod. No. 5208

\$12.95

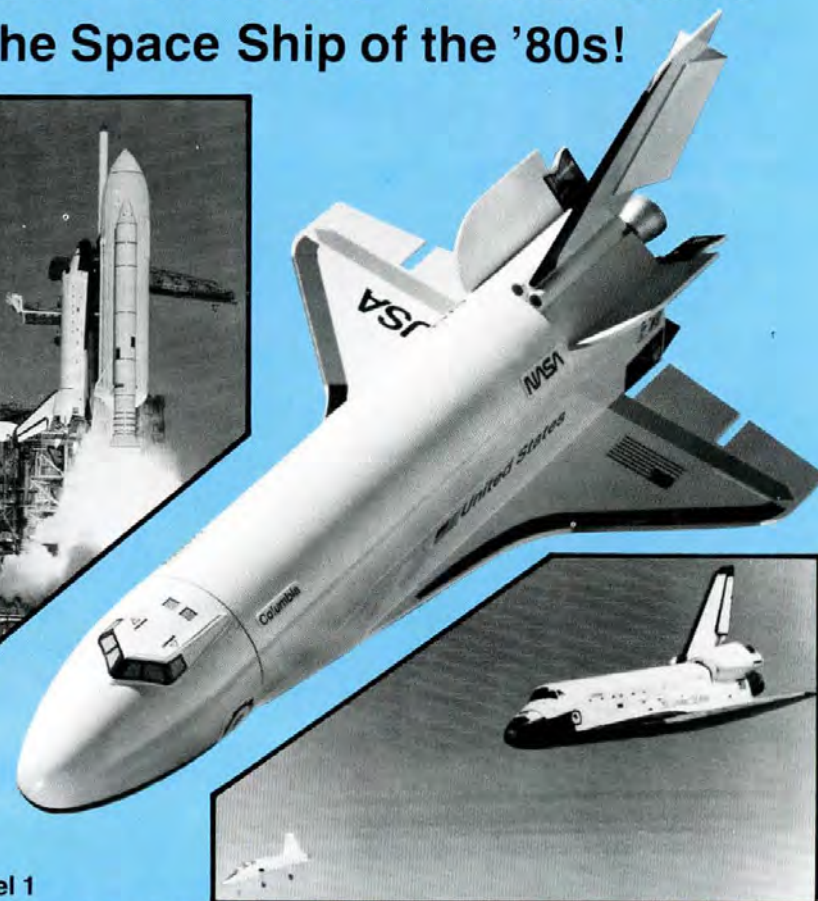
NASA Space Shuttle Columbia

Fly The Space Ship of the '80s!

Engines, launch system, glue and finishing supplies not included.



NASA
PHOTOS



Skill Level 1

On April 12, 1981 the Columbia became the first Space Shuttle to fly in space. Throughout the 1980s the Columbia, and her sister ships, will become the workhorses for America's space exploration.

You can fly Centuri's model of this famous space vehicle today. This fun Centuri kit is engineered with the real shuttle's shapes simplified for fast assembly and reliable flights.

Build the Columbia quickly and easily with white glue and plastic cement, then spray paint it white. Apply the red, blue, black and gray decals from the huge stick-on sheet supplied. Very little finishing is required, and the result is a beautiful model you'll be proud to display and fly.

Includes a tech data sheet on the real Columbia. Engine nozzle unit removes for flight. Engines: B4-4 (First Flight), B6-4, B8-5, C6-5

Specs: Length: 11.3 in. (28.7 cm) Dia.: 1.64 in. (4.2 cm)
Net. Wt.: 2.45 oz. (68.6 g)



Prod. No. 5343 \$7.00

Page 9

Centuri



MOONRAKER



EXCALIBUR



THUNDERHAWK



VIKING



LIL' IVAN

NEW!



LIL' HERC

Engines, launch system, glue and finishing supplies not included.

SKILL LEVEL 1

MOONRAKER

Low cost rocket that moves off the launch pad fast! You can make it in either of two configurations.

Specs:
Length: 5.5" (14 cm)
Dia.: .76" (1.9 cm)
Net Wt.: .3 oz (8.5 g)
Rec. Engines:
1/2A6-4, A8-5



Prod. No. 5041
\$2.50

EXCALIBUR

Excellent big rocket for beginners. This bird is over 2 feet long! Has sleek lines of a real research rocket yet goes together fast and easy.

Specs:
Length: 26.5" (67.3 cm)
Dia.: .91" (2.3 cm)
Net Wt.: 1.6 oz (45.4 g)
Rec. Engines:
A8-3, B4-4, B6-4, B8-5, C6-5



Prod. No. 5008
\$6.00

THUNDERHAWK

Over 20 inches long, this great performer turns in flights over 1,000 feet.

Specs:
Length: 21.5" (54.6 cm)
Dia.: .76 in. (1.9 cm)
Net Wt.: 1 oz (28 g)

Rec. Engines:
1/2A6-2, A8-3, B4-4, B6-4, B8-5, C6-7



Prod. No. 5338
\$3.75

VIKING

Easy to build and fun to fly. A great beginner model that requires no painting.

Specs:
Length: 12" (30.5 cm)
Dia.: .76" (1.9 cm)
Net Wt.: .8 oz (22.7 g)

Rec. Engines:
1/2A6-2, A8-5, B4-6, B6-6, C6-7



Prod. No. 5440
\$2.25

LIL' IVAN

Beginner kit with a Russian decor. Flights over 600 feet with a C engine.

Specs:
Length: 8.75 in. (22.2 cm)
Dia.: 1.63 in. (6.52 cm)
Net. Wt.: 1.35 oz (38.3 g)

Rec. Engines:
A8-5, B4-6, B6-6, C6-7



Prod. No. 5353
\$3.95

LIL' HERC

Learn about basic rocket flying principles with this easy-to-build rocket that ejects its engine after apogee and tumbles back for another flight.

Specs:
Length: 5.5 in. (14 cm)
Dia.: .76 in. (1.9 cm)
Net Wt.: .3 oz (8.5 g)
Rec. Engines:
1/2A6-2, 1/2A6-4



Prod. No. 5001
\$2.50

Centuri

RED-EYE

ASTRO-1

SCREAMING EAGLE

SKILL LEVEL 1

RED-EYE

The Red-Eye photo reconnaissance satellite keeps watch over military build-up. Easy-to-build kit. Unique recovery system.

Specs:

Body Length: 4.0 in. (10.2 cm)
Full Length: 8.75 in. (22.2 cm)
Body Dia.: .76 in. (1.9 cm)
Net Wt.: .3 oz (8.5 g)

Rec. Engines:
1/2A6-2



Prod. No. 5346
\$2.75

ASTRO-1

This clean design is an excellent beginner rocket. Quick to assemble and fly.

Specs:

Length: 16 in. (40.6 cm)
Dia.: 1.04 in. (2.6 cm)
Net Wt.: 1.1 oz (31.2 g)

Rec. Engines:

1/2A6-2, A8-3, B4-4, B6-4, B8-5, C6-5



Prod. No. 5047
\$6.00

SCREAMING EAGLE

Our easiest-to-build and most popular rocket, the Screaming Eagle requires no painting!

Specs:

Length: 16.4 in. (41.7 cm)
Dia.: .91 in. (2.3 cm)
Net Wt.: 1.6 oz (45.4 g)

Rec. Engines:

A8-3, B4-4, B6-4, B8-5, C6-7



Prod. No. 5173
\$4.50

JAVELIN

Easy-to-assemble, the Javelin is a high-flying beginner's rocket. Flights over 800 feet.

Specs:

Length: 12.5 in. (31.8 cm)
Dia.: .76 in. (1.9 cm)
Net Wt.: .6 oz (17 g)

Rec. Engines:

1/2A6-4, A8-5, B4-6, B6-6, C6-7



Prod. No. 5091
\$4.75

PHOENIX BIRD

Big and spectacular on the launch pad and in the air, the Phoenix Bird is easy-to-assemble. Everything about the Phoenix Bird is BIG!

Specs:

Length: 26.3 in. (66.8 cm)
Dia.: 1.34 in. (3.4 cm)
Net Wt.: 3.4 oz (96.4 g)

Rec. Engines:

B4-4, B6-4, B8-5, C6-5



Prod. No. 5407
\$9.00

SPIRIT OF AMERICA

This long bird is easy-to-build and fun to fly. A great first rocketry project or one to add to your fleet.

Specs:

Length: 22.7 in. (57.7 cm)
Dia.: .98 in. (2.5 cm)
Net Wt.: 1.4 oz (39.7 g)

Rec. Engines:

1/2A6-2, A8-3, B4-4, B6-4, B8-5, C6-5



Prod. No. 5344
\$4.25

Engines, launch system, glue and finishing supplies not included.

Centuri

MAGNUM HORNET

CONVERTIBLE

SKY DEVIL

THUNDERBIRD

SKILL LEVEL 2

MAGNUM HORNET

Watch this sleek bird race off the pad under Magnum D power! Capable of flights over 1200 feet! Includes convertible mount to fly with regular engines.

Specs:
Length: 19.8 in. (50.3 cm)
Dia.: 1.325 in. (3.4 cm)
Net Wt.: 1.76 oz (49.28 g)
Rec. Engines:
D12-7 With convertible mount:
B4-4, B6-4, B8-5, C6-5



Prod. No. 5341
\$5.00

SKY DEVIL

Select from 8 different fin patterns to customize this high-performer. Flights over 1,800 feet!

Specs:
Length: 12 to 14 in. (30.5 to 35.6 cm)
Dia.: .76 in. (1.9 cm)
Net Wt.: .8 oz (22.7 g)

Rec. Engines:
1/2A6-4, A8-5, B4-6, B6-6, C6-7



Prod. No. 5040
\$3.25

THUNDERBIRD

A great demo bird the Thunderbird stands over 41 inches tall. Flights over 500 feet.

Specs:
Length: 41.75 in. (106 cm)
Dia.: 1.0 in. (2.5 cm)
Net Wt.: 2.7 oz (77 g)

Rec. Engines:
A8-3, B4-4, B6-4, B8-5, C6-5



Prod. No. 5339
\$7.00

F-16 FIGHTER

This model rocket powered jet really flies. USAF's combat fighter of the 1980s. Kit is complete with plastic detailing parts.

Specs:
Length: 15 in. (38.1 cm)
Dia.: 1.04 in. (2.5 cm)
Span: 7 in. (17.8 cm)
Net Wt.: 2.0 oz (56.7 g)

Rec. Engines:
A8-3, B4-4, B6-4, C6-5



Prod. No. 5317
\$7.95

F-16 FIGHTER

STARFIRE

JAYHAWK

Engines, launch system, glue and finishing supplies not included.

STARFIRE

This sleek performer set a chute duration record at the First International Model Rocket Championships in Czechoslovakia. Low-drag tail shroud gives great performance.

Specs:
Length: 16 in. (40.6 cm)
Dia.: .91 in. (2.3 cm)
Net Wt.: 1 oz (28.4 g)
Rec. Engines:
1/2A6-2, A8-3, B4-6, B6-6, C6-7



Prod. No. 5072
\$6.00

JAYHAWK

Regular engine size version of the U.S. Navy's AQM-37A target drone. Great on display and in the air.

Specs:
Length: 12.6 in (32 cm)
Dia.: .91 in. (2.3 cm)
Net Wt.: 1 oz (28.4 g)

Rec. Engines:
1/2A6-2, A8-5, B4-6, B6-6, C6-7



Prod. No. 5171
\$5.00

Centuri

FLYING SAUCER

NEW!

MAGNUM SPRINT

SPACEMASTER

THUNDER ROC

RUSSIAN SAM-3

Engines, launch system, glue and finishing supplies not included.

SKILL LEVEL 2

SKILL LEVEL 3

FLYING SAUCER

Our most unusual design based on reported sightings. Rises smoothly off the pad, rolls over and lands on three landing gear!

Specs:
Dia.: 9.125 in. (23.2 cm)
Height: 3.5 in. (8.9 cm)
Net Wt.: 2.4 oz (68 g)
Rec. Engines:
C6-0, C5-0S

MAGNUM SPRINT

Designed for high performance with Magnum D engines. Sprint is a great display model too.

Specs:
Length: 23.25 in. (59.0 cm)
Dia.: 1.325 in. (33.6 mm)
Net Wt.: 1.95 oz (42 g)

Rec. Engines
D12-7



Prod. No. 5325
\$7.00

Prod. No. 5356
\$4.50



SPACEMASTER

The workhorse of space transports of the near future. Transports up to 100 men and equipment in excess of 4 million miles without refueling.

Specs:
Length: 22.25 in. (56.5 cm)
Dia.: .976 in. (2.5 cm)
Net. Wt.: 1.4 oz (40 g)

Rec. Engines:
1/2A6-2, A8-3, B4-4, B6-4, B8-5, C6-5, C6-7



Prod. No. 5348
\$6.00

THUNDER ROC

Longest kit in the Centuri line, the Thunder-Roc lumbers off the pad under either Super-C or Magnum D power. Convertible engine mount included.

Specs:
Length: 61.5 in. (156.2 cm)
Dia.: 1.64 in. (4.2 cm)
Net. Wt.: 6.6 oz (187 g)

Rec. Engines:
C5-3S, D12-5



Prod. No. 5340
\$9.95

RUSSIAN SAM-3

A modified scale version of the famous Russian surface-to-surface missile normally used against aircraft.

Specs:
Length: 13.5 in. (34.3 cm)
Dia.: 1.04 in. (2.6 cm)
Net Wt.: 1.2 oz (34 g)

Rec. Engines:
1/2A6-2, A8-3, B4-6, B6-6, C6-7



Prod. No. 5332
\$6.00

Centuri

BONUS!
Includes one D12-5
Engine and Igniter
FREE!

CONVERTIBLE
SR-71
BLACKBIRD

NEW!

MAGNUM SAM-3

BOEING A.L.C.M.
CRUISE
MISSILE

SKILL LEVEL 3

SR-71 BLACKBIRD

The SR-71 is the U.S. Air Force's long-range advanced strategic reconnaissance aircraft, capable of flying above 80,000 feet at three times the speed of sound. Includes D-convertible engine mount.

Specs:
Length: 27.5 in. (69.8 cm)
Dia.: 1.64 in. (4.2 cm)
Net Wt.: 6.6 oz (187 g)

Rec. Engines:
C6-3, C5-3S, D12-5



Prod. No. 5349
\$12.95

MAGNUM SAM-3

Magnum-D powered version of the Russian SAM-3 surface-to-surface missile. Two-stage performance with a Magnum D engine in the first stage and a regular Enerjet engine in the upper stage.

Specs:
Length: 26.875 in. (68.3 cm)
Dia.: 1.637 in. (41.6 mm)
Net Wt.: 2.78 oz (78.8 g)

Rec. Engines:
Single Stage: A8-3, B4-4, B8-5, C6-5, C5-3S
Upper Stage: A8-5, B4-4, B4-6, B8-5, C6-7
Booster: D12-0



Prod. No. 5355
\$6.50

BOEING A.L.C.M. CRUISE MISSILE

Boeing's weapon of the 1980s, already entering into disarmament talks involving Western Europe.

Model features molded plastic parts and wings that fold for flight. Includes colorful fibre display stand.

Specs:
Length: 12.3 in. (31.2 cm)
Net Wt.: 2.6 oz (73.7 g)

Rec. Engines:
A8-3, B4-4, B6-4, B8-5, C6-5



Prod. No. 5330
\$9.95

SAVE \$1.51
5347 BONUS PACK
Includes # 5345 Satellite Killer
and # 5346 Red Eye
Only \$8.99

SATELLITE
KILLER

USS AMERICA

NEW!

BULL DOG

USS AMERICA

Futuristic Presidential Command Post and operational center. Three large nuclear engines plus six ramjets power this advanced technology giant.

Specs:
Length: 25 in. (63.5 cm)
Dia.: 1.6 in. (4.1 cm)
Net. Wt.: 5.5 oz (155.9 g)

Rec. Engines:
C6-3, C5-3S



Prod. No. 5310
\$14.95

SATELLITE KILLER

This futuristic defense satellite is designed to identify and destroy enemy satellites, using special electronic and laser equipment. Kit features unique rear-ejection recovery system.

Specs:
Height: 6.5 in. (16.5 cm)
Full Dia.: 12.25 in. (31.1 cm)
Net Wt.: 3.5 oz (99.2 g)

Rec. Engines:
C6-3, C5-3S



Prod. No. 5345
\$8.00

BULL DOG

Near-scale version of the Marine Corps AGM-83 A missile. Beautifully detailed and spectacular in the air. Great display model.

Specs:
Length: 20.75 in. (52.7 cm)
Dia.: 2.217 in. (56.4 cm)
Net Wt.: 3.78 oz (107 g)

Rec. Engines:
B6-4, B8-5, C6-5, C5-3S



Prod. No. 5354
\$7.95
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Centuri

MERCURY REDSTONE

MAGNUM JAYHAWK

SST SHUTTLE

Engines, launch system, glue and finishing supplies not included.

SKILL LEVEL 3

SKILL LEVEL 4

MERCURY REDSTONE

This beautiful model of Freedom 7, America's first manned spaceflight, will make a fine addition to your rocket collection. This 1/36th scale model features a molded plastic Mercury capsule and escape tower. The Mercury Redstone lifts slowly off the pad—just like the real rocket.

Specs:
Length: 29 in. (73.7 cm)
Dia.: 2.04 in. (5.2 cm)
Net Wt.: 3.7 oz (104.9 g)

Rec. Engines:
B4-2, C6-3, C5-3S



Prod. No. 5131
\$12.50

MAGNUM JAYHAWK

Spectacular 1/5 scale model of the Navy's AQM-37A target drone. This massive model rocket is over 30 inches long. Fantastically detailed, it is a challenge for all modelers. Includes special tech data booklet on the AQM-37A. Designed for the advanced modeler, this is a kit you'll be proud to display and fly.

Specs:
Length: 30.4 in. (77.22 cm)
Dia.: 2.6 in. (6.6 cm)
Net Wt.: 9.21 oz (261 g)
Rec. Engines:
D12-3



Prod. No. 5342
\$15.95

SST SHUTTLE

This long bird features a piggy-back glider that recovers separately from the SST booster. Designed as an early concept of a supersonic space transport, the SST Shuttle is an exciting kit on display and in the air.

Specs:
Length: SST: 22.5 in. (57.2 cm)
Glider: 8.5 in. (21.6 cm)
Dia.: SST: 1.04 in. (2.6 cm)
Glider: .76 in. (1.9 cm)
Net Wt.: SST: 2 oz (56.7 g)
Glider: .6 oz (17 g)

Rec. Engines:
B4-2, C6-3, C5-3S



Prod. No. 5077
\$11.95

ARROW 300

Over three feet long, this multi-stager features three stage power and a large payload section. Ideal for scientific experiments. Capable of flights over 1/2 mile! Can be flown in single, dual or three-stage configuration.

Specs:
Length: 37.7 in. (95.8 cm)
Dia.: .91 in. (2.3 cm)
Net Wt.: 2.5 oz (70.9 g)

Rec. Engines:
Single Stage: A8-3, B4-4, B6-4, B8-5, C6-5
Upper Stages: 1/2A6-4, A8-5, B4-6, B6-6, C6-7
Booster: A8-0, B6-0, C6-0, C5-0S



Prod. No. 5037
\$9.95

ARROW 300



Centuri



SATURN V



SATURN 1B

Over two feet tall, this fantastically detailed model of Apollo 7 is a scale model you'll be proud of. Dual engine power provides flights over 500 feet. Molded plastic Apollo capsule and escape tower make assembly easy. Don't miss the excitement of your own Apollo program. Fly the Saturn 1B today!

Specs:

Length: 26.8 in. (68.1 cm)

Dia.: 2.62 in. (6.65 cm)

Net Wt.: 4.4 oz (124.7 g)

Rec. Engines:

(Two required per flight) B6-4, C6-5



Prod. No. 5140

\$23.95

SATURN V

Over the past 12 years, the Centuri Saturn V has been acknowledged as model rocketry's finest scale Saturn. This huge model stands over 43 inches tall. It is beautifully detailed right down to the vacuum-formed plastic body wrappers. Includes removable F-1 engine bell unit, molded plastic Apollo capsule and tower and three engine cluster power. Also included is a 12 page historical brochure on the Saturn rockets, including the Saturn V that took America to the Moon.

Specs:

Length: 43.6 in. (110.7 cm)

Dia.: 3.96 in. (10.1 cm)

Net. Wt.: 9.2 oz (260.8 g)

Rec. Engines:

(Requires three per flight) C6-3, C5-3S



Prod. No. 5142

\$36.95

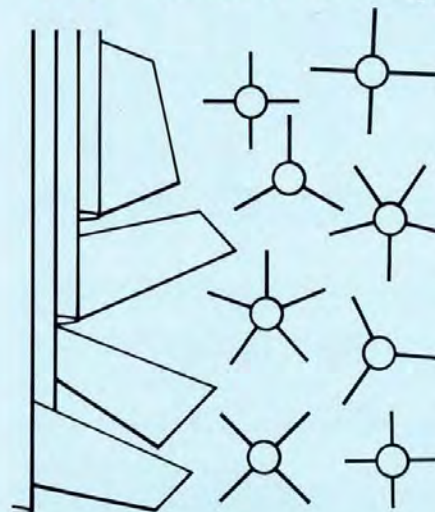
Engines, launch system, glue and finishing supplies not included.



Viking 12 Pack



The Model Rocket Project Designed For Youth Groups and Schools



The Viking 12 Pack is a low-cost rocketry project designed for groups and schools. The Viking rocket is easy-to-build and can be assembled in a single session. The Viking 12 Pack contains parts for Viking 12 rockets, assembly instructions and the Viking Leader's Guide. The Guide is a brief but comprehensive explanation of model rocketry; it explains how to run building and flying sessions, 3 fun-flying contests and how to cut costs in obtaining a launch system. Buying the Viking 12 Pack costs even less than buying 12 individual kits. Engines are not included. See A8-5 Flight Pack below.

Prod. No. 5441

\$19.95

Flight Packs



Bargain-priced packs of all supplies needed for 12 exciting flights. Each includes 12 Enerjet engines, 12 Sure-Shot II igniters and instructions at about a 15% savings. Includes a package of SPW-19 crepe wadding at no extra cost!

Sport Flight Pack:

An assortment of 12 engines including the most popular types. Includes (3) A8-3, (3) B6-4, (3) C6-5, (2) B6-6 and (1) C6-7 plus igniters, wadding and instructions.

Prod. No. 5446 \$9.00

C Flight Pack:

Assortment of 12 C type engines. Includes (2) C6-3, (4) C6-5, (3) C6-7 and (3) C5-3S plus igniters, wadding and instructions.

Prod. No. 5447 \$9.50

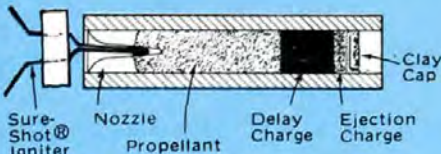
A8-5 Flight Pack:

For use with the Viking 12 Pack (No. 5441). 12 A8-5 engines plus igniters, wadding and instructions.

Prod. No. 5445 \$8.50

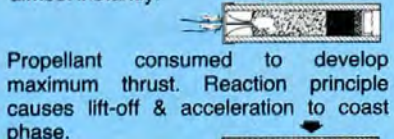
Centuri Model Rocket Engines

All Centuri Enerjet and Magnum D engines are manufactured by automatic equipment to exacting standards. Designed for one-time use; not reloadable or reusable. The NAR emblem on every engine means they are regularly tested and meet all safety standards. We test 3 out of every 100 engines. We strive to provide the highest quality engines available.

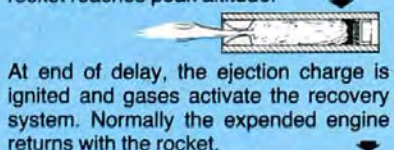


IGNITION TO EJECTION

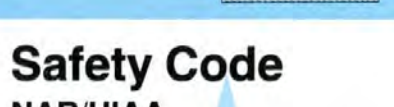
Battery-operated launch system heats igniter in engine nozzle—propellant starts almost instantly.



Propellant consumed to develop maximum thrust. Reaction principle causes lift-off & acceleration to coast phase.



Rocket coasts upward after propellant expended. Delay charge continues until rocket reaches peak altitude.



At end of delay, the ejection charge is ignited and gases activate the recovery system. Normally the expended engine returns with the rocket.

ENGINE CODE EXPLANATION

The letter is total impulse. * A higher class letter means more power; B is double the power of A and C is double the power of B, etc.

The first number is average thrust. This indicates how the average power is delivered. The higher the number, the higher the average thrust.

The last number is the delay code in seconds. This is the time duration from the end of thrust to the activation of the ejection charge.

1/2A6-4

LABEL COLOR

GREEN: Best delay for most single-stage rockets.

PURPLE: A longer delay usually for multi-stage or high flying lightweight single-stage rockets.

RED: Has no delay (0). For lower stages of multi-stage rockets. Never use a booster engine in single-stage rocket except in kits where specified.

*TOTAL IMPULSE CHART

Engine Type	Total Impulse in Newton-Seconds	Total Impulse in Pound-Seconds
1/2A	0.626 to 1.25	0.15 to 0.28
A	1.26 to 2.50	0.29 to 0.56
B	2.51 to 5.00	0.57 to 1.12
C	5.01 to 10.00	1.13 to 2.24
D	10.01 to 20.00	2.25 to 5.00

Safety Code

NAR/HIAA

- CONSTRUCTION** — My model rockets will be made of lightweight materials such as paper, wood, plastic, and rubber without any metal as structural parts.
- ENGINES** — I will use only pre-loaded factory made model rocket engines in the manner recommended by the manufacturer. I will not change in any way nor attempt to reload these engines.
- RECOVERY** — I will always use a recovery system in my model rockets that will return them safely to the ground so that they may be flown again.
- WEIGHT LIMITS** — My model rocket will weigh no more than 453 grams (16 oz.) at lift-off, and the engines will contain no more than 133 grams (4 oz.) of propellant.
- STABILITY** — I will check the stability of my model rocket before its first flight, except when launching models of already proven stability.
- LAUNCHING SYSTEM** — The system I use to launch my model rockets must be remotely-controlled and electrically operated and will contain a switch that will turn to "off" when released. I will remain at least 15 feet from any rocket that is being launched.
- LAUNCH SAFETY** — I will not let anyone approach a model rocket on a launcher until I have made sure that either the safety interlock key has been removed or the battery has been disconnected from my launcher.

8. **FLYING CONDITIONS** — I will not launch my model rocket in high winds, near buildings, power lines, tall trees, low flying aircraft or under any condition which might be dangerous to people or property.

9. **LAUNCH AREA** — My model rockets will always be launched from a cleared area free of any easy to burn materials, and I will only use non-flammable recovery wadding in my rockets.

10. **JET DEFLECTOR** — My launcher will have a jet deflector device to prevent the engine exhaust from hitting the ground directly.

11. **LAUNCH ROD** — To prevent accidental eye injury I will always place the launcher so the end of the rod is above eye level or cap the end of the rod with my hand when approaching it. I will never place my head or body over the launching rod. When my launcher is not in use I will always store it so that the launch rod is not in an upright position.

12. **POWER LINES** — I will never attempt to recover my rocket from a power line or other dangerous places.

13. **LAUNCH TARGETS & ANGLES** — I will not launch rockets so their flight path will carry them against targets on the ground, and will never use an explosive warhead, nor a payload that is intended to be flammable. My launching device will always be pointed within 30 degrees of vertical.

14. **PRE-LAUNCH TEST** — When conducting research activities with unproven designs or methods, I will when possible determine their reliability through pre-launch tests. I will conduct launchings of unproven designs in complete isolation from persons not participating in the actual launching.

Centuri ENGINE SPECS



Typical Enerjet shown actual size

Centuri Enerjet and Magnum-D engines are sold in boxes with three engines of one type. Sure-Shot II igniters and complete operating instructions are included.



STANDARD SIZE ENGINES—Centuri's reliable engine designed to fit all regular model rockets. Size is 2.75" long (6.99cm) and 0.690" diam. (1.75cm).

Prod. Number	Type	Prices 3 For	Total Impulse N-sec.	Average Thrust Newtons	Thrust Duration Seconds	Delay Time 15% Seconds	Engine Weight Ounces	Recom. Max. Lift-Off Wt. (with engines) Ounces	Single Stage	Booster	Label Color
5550	1/2A6-2	\$2.55	1.25	6.23	.20	2	.53	2.5	X		Green
5552	1/2A6-4	\$2.55	1.25	6.23	.20	4	.54	1.5	X		Purple
5558	A8-0	\$2.65	2.50	7.81	.32	0	.51	4.5		X	Red
5560	A8-3	\$2.65	2.50	7.81	.32	3	.57	5.0	X		Green
5562	A8-5	\$2.65	2.50	7.81	.32	5	.62	2.5	X		Purple
5564	B4-2	\$2.75	5.00	4.15	1.20	2	.70	5.0	X		Green
5566	B4-4	\$2.75	5.00	4.15	1.20	4	.74	4.5	X		Green
5568	B4-6	\$2.75	5.00	4.15	1.20	6	.78	3.5	X		Purple
5570	B6-0	\$2.75	5.00	6.00	.83	0	.58	5.0		X	Red
5572	B6-4	\$2.75	5.00	6.00	.83	4	.78	5.0	X		Green
5574	B6-6	\$2.75	5.00	6.00	.83	6	.71	3.0	X		Purple
5548	B8-5	\$2.85	5.00	8.33	.60	5	.68	5.0	X		Green
5582	C6-0	\$2.95	10.00	5.86	1.70	0	.80	6.0		X	Red
5584	C6-3	\$2.95	10.00	5.86	1.70	3	.88	6.0	X		Green
5586	C6-5	\$2.95	10.00	5.86	1.70	5	.91	5.0	X		Green
5588	C6-7	\$2.95	10.00	5.86	1.70	7	.95	3.5	X		Purple
5590	C5-0S	\$2.95	10.00	4.76	2.10	0	.82	8.0		X	Red
5592	C5-3S	\$2.95	10.00	4.76	2.10	3	.90	8.0	X		Green

MAGNUM-D

Powerful engines recommended for experienced rocketeers. Size is 2.75" long (6.99cm) and 0.945" diam. (2.4cm).

5596	D12-0	\$4.95	20.00	11.76	1.70	0	1.44	14.0		X	Red
5597	D12-3	\$4.95	20.00	11.76	1.70	3	1.49	14.0	X		Green
5598	D12-5	\$4.95	20.00	11.76	1.70	5	1.52	10.0	X		Green
5599	D12-7	\$4.95	20.00	11.76	1.70	7	1.55	8.0	X		Purple

Enerjet and Sure-Shot are registered trademarks of Centuri Engineering Co., Inc.

Igniters

Sure-Shot® II

These high-performance igniters will give reliable ignition every time. Features easy installation and four element construction. Available in 6 or 12 pack.

6 Pack:
Prod. No. 5690 \$1.25

12 Pack:
Prod. No. 5692 \$2.00



Launch Equipment



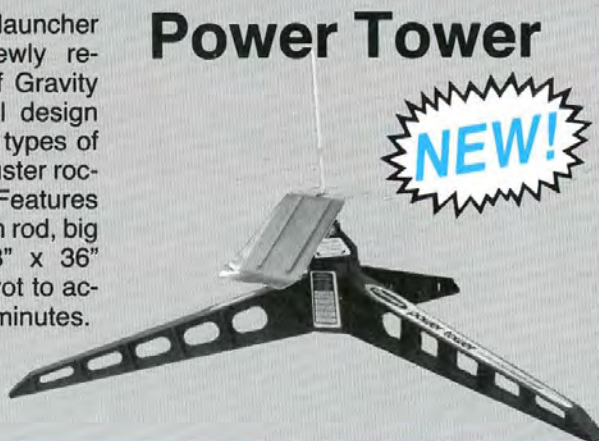
Powr-Pad

Powr-Pad gives you everything you need for launching almost any rocket. Designed to attach firmly to any standard 6 volt lantern battery (not included). It includes tilter, steel blast deflector, handy carrying handle, 1/8" x 36" 2 piece launch rod, plus launch controller and associated wiring. Launch support platform is made of tough heat-resistant plastic. Pre-assembled and soldered wiring harness makes for fast assembly and reliability you can count on.

Prod. No. 5609 \$14.95

A heavy duty plastic tripod launcher with authentic detailing. Newly re-designed for lower Center of Gravity and more stability. Universal design lets you launch all sizes and types of rockets from minis to large cluster rockets and Magnum D engines. Features removable legs, tiltable launch rod, big blast deflector, 2 piece 1/8" x 36" launch rod and adjustable pivot to accept 3/16" rod. Assembles in minutes.

Prod. No. 5601 \$9.00



Launch Rods

2 piece 1/8" x 36" rod. Use for your own home-built launch stand or as a replacement for Powr-Pad or Power Tower.

Prod. No. 5800 \$1.25

Extra-strong 2-piece launch rod 3/16" in diameter. Compatible with Power Tower. Designed for heavy duty launchings such as Saturn V and Magnum D kits.

Prod. No. 5803 \$2.50

Power-Pulse™ Launch Controller

This revolutionary new launch controller utilizes the new 6 volt Polaroid® Pola-Pulse™ battery. This super-thin battery eliminates the need for expensive and hard to find lantern batteries and gives consistent ignition for more than 150 launchings. The Power-Pulse controller is molded out of rugged styrene plastic and features safety key, continuity check light and ignition button, 15 feet of launch cable and pre-soldered micro-clips. Use with Centuri Sure-Shot II igniters. The launch controller of the future—be sure it's in your range box today!

(Battery not included)

Prod. No. 5602 \$9.95



Length: 4-7/8"
Width: 3-7/8"
Depth: 15/16" to 1-3/16"

Polaroid® Pola-Pulse™ Battery

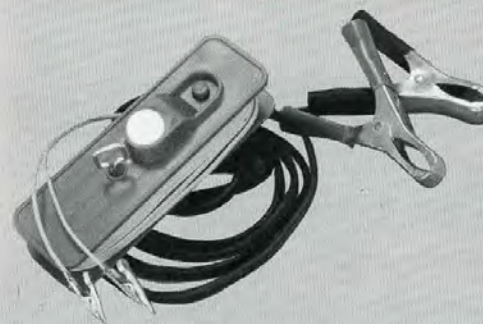
Revolutionary battery is only 3.7" high by 3" wide by 0.18" thick, yet packs the power for more than 150 launchings. Use with No. 5602 Power-Pulse Controller and Sure-Shot II igniters. 6 volt power.

Prod. No. 5630 Only \$3.25

Powr-Control

Powr-Control is the perfect controller for the Power Tower launcher or can be used with any launch stand. Contains 16 feet of igniter line and 5 feet of heavy duty jumper cable with large color-coded battery clips. Controller contains recessed launch button, continuity check light and safety key. Fly cluster powered rockets with this one!

Prod. No. 5623 \$9.95



Deflector

All steel 4" x 6" deflector designed to protect fins and nearby foliage from rocket exhaust.

Prod. No. 5806 \$1.50



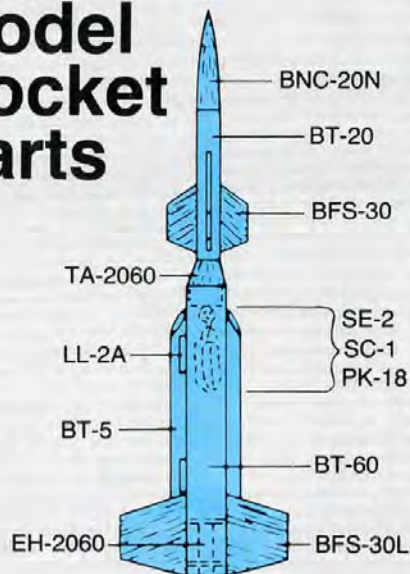
Micro-Clips

Replacement for Centuri systems or use on your own system.

Prod. No. 5812 \$1.25



Model Rocket Parts



ORIGINAL DESIGN (Shows how a variety of matching parts can be used together.)

Once you have built and flown several Centuri model rocket kits and have learned the basics of model rocket design, you'll want to design your own rockets, using custom model rocket parts. Centuri offers a full line of industry-standard sized parts, manufactured by Estes Industries. These parts are compatible with all Centuri Enerjet and Magnum D model rocket engines and with each other. In some cases, they may not be compatible with parts in some Centuri kits.

Nearly all the parts listed here that match have the same series description number. Those that do not feature an additional description as to where they can be used. Normally, parts listing the same series number will be interchangeable with each other. For instance, a No. 20 body tube (BT-20) would mate with a No. 20A balsa nose cone (BNC-20A), a No. 20B engine block (EB-20B) and so on. Further, a No. 2060 tube adapter (TA-2060) will adapt a BT-20 to a BT-60, and a No. 5055 centering ring (AR-5055) will center a BT-50 in a BT-55. By using balsa or paper adapters almost any combination of parts can be joined together. For ordering, be sure to use both the product number and the series description number (name).

Fin Stock



Prod. No.	Description	Price	Dimensions (Inches)	Weight in Oz.	Major Use
3164	BFS-20	3for\$1.15	1/16x3x9	.130	High Performance
3166	BFS-20L	3for\$1.35	1/16x3x12	.173	High Performance
3168	BFS-30	3for\$1.20	3/32x3x9	.150	Sport Models
3170	BFS-30L	3for\$1.40	3/32x3x12	.200	Sport Models
3172	BFS-40	3for\$1.35	1/8x3x9	.200	Cluster Rockets
3174	BFS-40L	3for\$1.40	1/8x3x12	.265	Glider Wings

Body Tubes



Prod. No.	Description	Price Each	Length	Inside Diameter	Outside Diameter	Wall Thickness	Weight in Oz.
Spiral-Wound Paper Tube, for nose sections and strap-on payloads.							
3070	BT-5	\$1.10	18"	0.515"	0.541"	0.013"	.219
Spiral-Wound Paper Tube, for competition and sport models.							
3072	BT-20	\$1.20	18"	0.710"	0.736"	0.013"	.288
Spiral-Wound Paper Tube, for sport and high performance payload models.							
3073	BT-50	\$1.30	18"	0.950"	0.976"	0.013"	.378
Spiral-Wound Paper Tube, for sport and demonstration models.							
3074	BT-55	\$1.55	18"	1.283"	1.325"	0.021"	.672
Spiral-Wound Paper Tube, for sport and demonstration models.							
3075	BT-60	\$1.65	18"	1.595"	1.637"	0.021"	.960
Spiral-Wound Paper Tube, for monster models and tail rings.							
3076	BT-70	\$2.15	17.5"	2.175"	2.217"	0.021"	1.300
Spiral-Wound Paper Tube, for giant-scale models.							
30438	BT-101	\$2.65	16.5"	3.896"	3.938"	0.021"	1.974

Engine Blocks

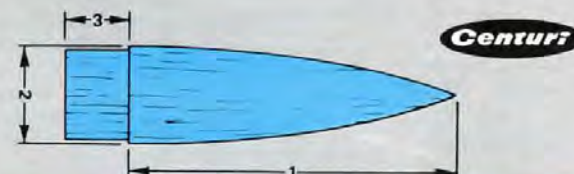


Prod. No.	Description	Price 3for	Outside Dia.	Inside Dia.	Length	Fits	Weight in Oz.
3131	EB-20A	\$.95	.708"	.65"	1/4"	BT-20	.009

Nose Cones

Nose cone dimensions listed in columns 1, 2, and 3.

In "Description" column BNC stand for balsa nose cone and PNC for plastic nose cone.



Shape	No.	Prod. No.	Description	Price Each	1	2	3	Average Weight
BT-5	1	8002	BNC-5V	\$1.10	3/4"	0.541"	1/4"	0.013 oz.
	2	8000	BNC-5E	\$1.10	1-3/8"	0.541"	1/4"	0.020 oz.
	3	8001	BNC-5S	\$1.10	1-1/2"	0.541"	1/4"	0.016 oz.
	4	8003	BNC-5W	\$1.30	2-7/8"	0.541"	1/4"	0.039 oz.
BT-20	5	8004	BNC-20A	\$1.00	13/16"	0.736"	1/4"	0.03 oz.
	6	8005	BNC-20B	\$1.20	1-11/16"	0.736"	5/16"	0.05 oz.
	7	8007	BNC-20R	\$1.30	2-3/4"	0.736"	3/8"	0.07 oz.
	8	8022	PNC-20N	\$1.40	2-3/4"	0.736"	1/2"	0.08 oz.
BT-50	9	8008	BNC-50J	\$1.30	1-3/8"	0.976"	1/2"	0.08 oz.
	10	8009	BNC-50K	\$1.45	2-3/4"	0.976"	1/2"	0.13 oz.
	11	71028	PNC-50KA	\$1.20	2-3/4"	0.976"	1/2"	0.13 oz.
	12	8010	BNC-50X	\$1.50	3-1/4"	0.976"	1/2"	0.15 oz.
BT-55	13	8012	BNC-55AA	\$1.70	3-1/8"	1.325"	1/2"	0.15 oz.
	14	8014	BNC-55F	\$2.00	3-7/8"	1.325"	1/2"	0.19 oz.
	15	8023	PNC-55AC	\$2.10	5-3/8"	1.325"	3/8"	0.32 oz.
	16	71075	PNC-55AO	\$2.05	5"	1.325"	3/4"	0.43 oz.
BT-60	17	8024	PNC-60MS	\$1.80	3-1/8"	1.637"	5/8"	0.85 oz.
	18	8021	PNC-60AH	\$3.00	6-5/8"	1.637"	7/8"	1.0 oz.
BT-70	19	8019	BNC-70AJ	\$3.30	4-1/4"	2.217"	1"	0.85 oz.
BT-101	20	71050	PNC-101	\$2.75	12-1/2"	3.938"	3/4"	3.60 oz.

Engine Mounts



Engine Type	Prod. No.	Description	Price	Fits	Net Wt. (Oz.)
For regular Enerjet Engines	3150	EH-2050	\$1.25	BT-50	0.1
	3151	EH-2055	\$1.25	BT-55	0.14
	3152	EH-2060	\$1.25	BT-60	0.17
Special Purpose D-Convertible Mount	3154	EM-2050	\$1.20	BT-50	0.19

Stage Couplers



Prod. No.	Description	Price Each	Outside Diameter	Inside Diameter	Length	Fits	Average Weight
3050	JT-5C	\$.75	0.513"	0.455"	3/4"	BT-5	.020 oz.
3051	JT-20C	\$.75	0.708"	0.650"	3/4"	BT-20	.027 oz.
3052	JT-50C	\$.80	0.949"	0.920"	1"	BT-50	.051 oz.
3053	JT-55C	\$.80	1.28"	1.25"	1.3"	BT-55	.088 oz.
3054	JT-60C	\$.80	1.59"	1.55"	1-1/2"	BT-60	.124 oz.
3055	JT-70A	\$1.15	2.175"	2.115"	1-1/4"	BT-70	.140 oz.

Balsa Adapters



Prod. No.	Description	Price Each	Mates Tubes	Length	Taper Length	Weight (in Oz.)
8031	TA-520	\$1.20	BT-5 to BT-20	1.75"	0.75"	0.04
8032	TA-550	\$1.30	BT-5 to BT-50	2.2"	1.0"	0.06
8041	TA-2050	\$1.10	BT-20 to BT-50	3.0"	2.0"	0.15
8033	TA-2055	\$1.45	BT-20 to BT-55	2.5"	1.5"	0.22
8034	TA-2060	\$2.10	BT-20 to BT-60	3.0"	2.0"	0.20
8035	TA-5055	\$2.10	BT-50 to BT-55	2.0"	1.0"	0.60
8036	TA-5060	\$2.50	BT-50 to BT-60	3.0"	2.0"	0.23
8038	TA-5560	\$2.60	BT-55 to BT-60	2.2"	1.0"	0.25
8039	TA-6070	\$2.35	BT-60 to BT-70	2.7"	1.5"	0.65

Nose Blocks



Prod. No.	Description	Price Each	Outside Diameter	Length	Fits	Weight (in Oz.)
70152	NB-20	\$.90	0.710"	3/4"	BT-20	.014
70158	NB-50	\$1.00	0.950"	1"	BT-50	.040
70162	NB-55	\$1.00	1.283"	1-1/4"	BT-55	.115
70164	NB-60	\$1.15	1.595"	1-1/2"	BT-60	.190

Construction Supplies

Centering Rings AR-5055: For centering a BT-50 body tube within a BT-55. Extra strong for "D" engine mounts. Weight 0.062 oz. each.

No. 3102 4 for \$1.20

AR-2050 Centering Rings: For centering a BT-20 body tube within a BT-50. Greater strength makes for use with high thrust engines. Weight per pair .285 oz.

No. 3100 10 for \$1.50

Launch Lugs: Super-strength laminated launch lugs feature mylar plastic core for durability, paper outer layer for easy gluing. Inside diameter 5/32" fits 1/8" launch rod.

1-1/4" long.

No. 2321 12 for \$1.25

2-3/8" long

No. 2322 10 for \$1.40

Maxi-Rod Launch Lug: 2" long, fits 3/16" diameter launch rod.

No. 2328 4 for \$1.10

Shock Cord: Specify width when ordering.

1/8" wide. Net Wt. 0.039 oz.

Prod. No. 2276 \$.60

1/4" wide. Net Wt. 0.078 oz.

Prod. No. 2277 \$.65

Also 36" long for greater stretch on those larger birds. 1/8" wide.

Prod. No. 85744 \$.75

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Engine Holders: Flat spring steel design gives easy installation and low drag. Recommended for sport and demonstration models. For Regular and "D" engines.

No. 3140 3 for \$1.50

Paper Adapters

Rings RA-2055: 10 rings for centering and mounting BT-20 in BT-55.

No. 3111 10 for \$1.15

Rings RA-2060: 10 rings for centering and mounting BT-20 in BT-60.

No. 3113 10 for \$1.20

Multi-Purpose Set: Includes a total of 20 rings for positioning BT-5 in BT-20; BT-5, BT-20, BT-30 in BT-50; and BT-5, BT-20 and BT-50 in BT-60. Also three universal tapered shrouds and instructions.

No. 8030 \$1.30

RA-2050 RINGS: 20 rings for centering and mounting BT-20 in BT-50.

No. 3110 20 for \$1.10

Dowels: Extra strong, lightweight seasoned maple dowels.

1/8" x 18"

No. 32056 8 for \$1.00

1/12" x 12"

No. 32058 8 for \$1.00

Screw Eyes: Specify size when ordering. 6 each.

Large Eye: 1" long, .04 oz.

Prod. No. 2280 \$1.00

Small Eye: 3/4" long, .03 oz.

Prod. No. 2279 \$.95

Extra Small Eye: 5/8" long, .01 oz.

Prod. No. 2281: \$.90

Recovery Supplies

Parachute Kits: Parachute recovery is a high point of any rocket flight. After the "coasting phase" you'll hear the chute assembly "pop" free of the rocket followed by a crisp "snap" as the canopy fills with air and your rocket starts its descent. Each chute kit contains a tough 2-color plastic canopy, heavy duty shroud line, tape discs and instructions for assembly. Check net weight of your rocket to determine parachute size.

Description	Prod. No.	Dia.	Max. Net Wt.	Price Ea.
CP-12	5854	12"	2 oz.	\$1.20
CP-16	5860	16"	4 oz.	\$1.30
CP-20	5866	20"	6 oz.	\$1.40
CP-24	5872	24"	8 oz.	\$1.50

Shroud Line: Build reliable, durable custom parachutes with this strong, hard surface shroud line cord. Comes in 70 yard spools.

Prod. No. 2340 \$1.10

Tape Strips: For top strength, low bulk and low weight fasten shroud lines with these 1/4" x 3/4" tape strips in sheets of 12 strips.

Prod. No. 38412 6 sheets \$1.30

Streamers: Bright orange flame-resistant crepe paper streamers. In 7-1/2 foot lengths, enough for two to eight streamers. Specify size when ordering.

1" wide. Net Wt. .092 oz.

Prod. No. 2341 \$2.00

2" wide. Net Wt. .184 oz.

Prod. No. 2343 \$2.25

Tape Discs: Fasten shroud lines to plastic parachutes or streamers with these 3/4" diameter sensitive tape discs. In sheets of 6 discs.

Prod. No. 2294 \$1.20

Wadding: Flame-resistant crepe paper wadding to protect recovery devices. Enough for 25 BT-20 rockets.

SPW-19 Crepe Wadding

Prod. No. 5846 \$1.50

Snap Swivels: For quick changes and reduced tangling in your recovery systems, use these tiny 1" long snap swivels. Net. Wt. .01 oz. 12 swivels.

Prod. No. 2292 12 for \$1.60

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Other Damon Companies:



Damon Corporation
80 Wilson Way, Westwood, MA 02090 -
617-449-0800

SINCE 1922



Hi-Flier Manufacturing Co., Inc.
Box 280, Penrose, CO 81240 - 303-372-
3080 Manufacturing plastic and paper
kites, cord, reels, gliders and sport kites.



Arrow Industries, Inc.
900 W. 45th Street, Chicago, IL 60609 -
312-927-2000 Manufacturing craft kits,
wood dollhouse kits, X-mas ornaments,
ball clocks, gumball banks, novelty banks,
"Magic Rocks" and "Wheels."

NASA Space Shuttle Columbia Outfit

Skill Level One –
Recommended
for Beginners

Fly
America's
Newest
Spaceship!



*Battery, paint and glue
are not included.*

Start your own Space Program with Centuri's Space Shuttle Columbia Outfit. This easy-to-build model is a near-scale version of NASA's Columbia Orbiter, which was the first space shuttle to fly in space on April 12, 1981.

Picture yourself ready to launch your fully prepped COLUMBIA: count-down . . . ignition . . . lift-off . . . roaring skyward . . . ejection! The big 16" chute brings her back safely in realistic glide position, ready to be launched again.

Complete starter set includes everything for your first three thrilling flights (except battery and finishing supplies). The COLUMBIA, at nearly one foot long, is a great display model between missions! Also included is the deluxe Powr-Pad launcher and three powerful Enerjet model rocket engines with igniters and recovery wadding.

Engines: B4-4 (First Flight), B6-4, B8-5, C6-5

**Centuri Flying
Model Rockets
P.O. Box 1988
Phoenix, AZ 85001**



Prod. No. 5206

ONLY \$17.95

IMPORTANT INFORMATION

Please Read!

ATTENTION PARENTS, TEACHERS, AND ROCKETEERS

Please do not be alarmed by the placement of the label illustrated below on shipping cartons containing model rocket engines. When used as directed, Model Rocket Engines "ARE SAFE", and have produced an excellent Safety Record. This label is technically required by law. Please note that "Flammable Solid" label is required only for the transportation of the product and that model rocket engines are considered less of a hazard than model airplane fuel or aerosol paints.

DON'T MISS A MAILING

In order for you to receive all Centuri mailings be sure to order at least \$5.00 worth of merchandise every 6 months. This will assure that your name will be retained on our active mailing list.

SHIPPING INFORMATION

The following information is provided in accordance with the requirements set forth in Trade Regulation Rule 435, promulgated by the Federal Trade Commission, effective February 2, 1976.

We normally ship within 72 hours of receipt of your order. On occasion, a product may be temporarily out of stock, in which case we will notify you within 30 days that there will be a delay. Your order will then be filled as soon as possible, but in no event later than 90 days from receipt of your order.

A SPECIAL MESSAGE TO CENTURI CUSTOMERS

From time to time Centuri makes the names and addresses of its customers available to other companies who produce other products you may be interested in. This means that you may be receiving advertising and sales literature from these companies in your mail. If you do not wish your name and address to be used in this manner, please contact Centuri Customer Service Dept., Box 1988, Phoenix, AZ 85001.



GOOD NEWS FOR OREGON MODEL ROCKETRY HOBBYISTS

Effective November 1, 1981, the Oregon State Fire Marshal will no longer require permits to launch model rockets. Previous Oregon model rocketry regulations requiring permits to launch model rockets, Administrative Rules #837-12-250 through 837-12-270, have been repealed. Local jurisdictions may have ordinances in effect which do regulate model rockets within their jurisdiction. It is suggested that individuals check with the fire authority having jurisdiction in the area where they plan to launch, to be sure that local regulations do not require a permit.

For additional information contact:

Office of State Fire Marshal
Department of Commerce
103 Labor & Industries Building
Salem, OR 97310

MASSACHUSETTS AND RHODE ISLAND RESIDENTS

According to your state model rocketry regulations, you are required to obtain a permit from your local fire or safety authority in order to purchase and use model rocket engines.

As soon as you receive your permit, please send us a copy to keep on permanent file. All orders for engines must be placed in the name of the permit holder. For a copy of Massachusetts regulations write for: FPR Fire Prevention Regulation #15, State Book Store, State House, Room 116, Boston, Massachusetts 02133. (Include 30¢ for copy and postage). In Rhode Island, write: Rhode Island State Fire Marshal, 12 Humbert Street, North Providence, Rhode Island 02911 c/o William McVey, Chief of Technical Services.

NEW JERSEY RESIDENTS

In accordance with Safety Regulation No. 24 of the New Jersey Department of Labor and Industry, Centuri can sell engines only to holders of valid permits. These permits are issued to any adult who will assume full responsibility for the safe handling and use of model rocket engines including the purchase of them.

To obtain a permit first write to the State of New Jersey, Department of Labor and Industry, Bureau of Engineering and Safety, Box 709, Trenton, New Jersey, 08625, and request an application form for a model rocket engine permit. The fee for a permit is two dollars. DO NOT SEND THE PAYMENT until you return the completed application form to the Department of Labor and Industry. You will receive complete information on the procedures to follow when you receive the application form.

As soon as you receive your permit, please send us a copy to keep on permanent file.

If you are not yet an adult yourself, your parents, teachers, etc. can obtain permits and can purchase engines for you.

FOREIGN ORDERS

Due to restrictive International Air Mail Regulations, we are not able to ship our model rocket engines to any international or APO address.

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GET THE MOST OUT OF YOUR HOBBY

10 REASONS TO JOIN THE NATIONAL ASSOCIATION OF ROCKETRY

NAR MEMBERS RECEIVE ALL THIS:

- 1 **Model Rocketeer Magazine**—12 monthly issues with the latest in rocketry!
- 2 **Coupon Sheet**—Free products and samples from many aeromodeling manufacturers.
- 3 **NAR Pink Book**—68 page rule book for over two dozen flying contests!
- 4 **NAR Sporting License**—ID card with your registered number!
- 5 **NAR Decals**—Official decals identify your models!

NAR MEMBERS ARE ENTITLED TO:

- 6 **\$1,000,000 Liability Insurance**—The world's safest hobby!
- 7 **Join NAR Clubs**—There are NAR clubs all over the country!
- 8 **Attend NARAMS**—Spend a week at the NAR Annual Meet!
- 9 **Set National and World Records**—Receive official recognition!
- 10 **Member Services**—Free and low cost booklets, plans, patches and more!

APPLICATION

Membership Category—Check one only!

- | | |
|---|---------|
| <input type="checkbox"/> JUNIOR
(Under 16 as of Jan. 1) | \$9.00 |
| <input type="checkbox"/> LEADER
(Under 21 as of Jan. 1) | \$12.00 |
| <input type="checkbox"/> SENIOR
(21 or over as of Jan. 1) | \$16.00 |
| <input type="checkbox"/> 6-Month Junior Membership
(under 16 as of Jan. 1) | \$6.00 |
| (No Model Rocketeer Magazine) | |

Optional Membership Services—
In addition to above fee.

- | | |
|--|--------|
| <input type="checkbox"/> \$1,000,000 liability protection
while flying model rockets. | \$4.00 |
| <input type="checkbox"/> FAI Stamp for team programs
and international records. | \$2.00 |

Amount Enclosed _____



National Association of Rocketry
Dept. C-82, 182 Madison Dr.
Elizabeth, PA 15037

Name _____

Address _____

City _____

State _____ Zip _____

I pledge to follow the NAR/HIAA Safety Code:

X

CALIFORNIA RESIDENTS

To receive model rocket engines by mail order in California, you must be aware of the following conditions and fulfill several simple requirements.

1. To receive 1/4A through C type engines you must be at least 14 years of age and have a "Statement of Age Certificate" on file with Centuri.
2. To receive D engines you must be at least 18 years of age and have a "Statement of Age Certificate" on file with Centuri.
3. If you are not old enough to receive the type of model rocket engines you wish, please have one of your parents send your order in for you. Remember they must also have a "Statement of Age Certificate" on file with Centuri.
4. You need to file a "Statement of Age Certificate" only once. Fill out and send in the certificate below now to assure the rapid handling of all your future orders.
5. To launch, an individual must secure authorization (either written or verbal) from the fire authority having jurisdiction over the area he plans to use as a launch site.
6. No additional consumer permit to purchase or use model rocket engines is required.

Copies of the State of California Model Rocket Regulations may be obtained upon request by writing to the following:

Chief Albert E. Hole
California State Fire Marshal
1215 "O" Street, Room A101
Sacramento, California 95814

CALIFORNIA STATEMENT OF AGE CERTIFICATE

Name _____ Date _____

Address _____ City _____

State _____ Zip _____ Phone (____) _____

In order to receive model rocket engines in California, please check one of the following boxes and sign. ☐ (A) I am 14 years of age, but not yet 18. ☐ (B) I am 18 years of age or older.

Parent
Signature _____

Rocketeer
Signature _____

(Must be signed if box "A" is checked.)

PAGE F

Send to: Centuri, P.O. Box 1988, Phoenix, AZ 85001

NOTE: Certificate need be filed only once.

Centuri

CUSTOM

Outfits

**\$70.75
VALUE
YOU SAVE
\$20.80**

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Skill Level 5

**"Moonshot Outfit" Includes:**

- Saturn V Kit
- Power Tower Launcher
- Power-Control Unit
- 9 Enerjet C5-3S Model Rocket Engines
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- 3 Sure Shot Igniter Packs plus 12 extra igniters
- Heavy-Duty 3/16" Thick Launch Rod plus Standard Launch Rod

Prod. No. 5485

\$49.95

THUNDER Outfit

Skill Level 3

**\$40.80
VALUE
YOU SAVE
\$12.85**

**"Thunder Outfit" Includes:**

- Thunder Roc Model Rocket Kit
- Power Tower Launcher with standard rod
- Heavy Duty 3/16" Launch Rod
- Power-Control Ignition System
- 3 Magnum D12-5 Engines
- 3 Enerjet C5-3S Engines
- Flameproof Wadding
- 6 Sure-Shot Igniters

Prod. No. 5486

\$27.95

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**Worth
\$2.50**

**Toward your next order over \$17.50
Or can be redeemed for one FREE
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On your next order over \$17.50 be sure to include this coupon with your order form. Limit one Coupon per order.

Check one box:

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Expires 12-31-82

Centuri Flying Model Rockets
P.O. Box 1988, Phoenix, AZ 85001

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Send in this coupon with the enclosed order form. We'll send you the CAT membership for only \$1.50. #6911

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702

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907,480

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ORDER FORM

	Cat. No.	Qty.	Product Description	Unit Price	Total
1					
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3					
4					
5					
6					
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8					
9					
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11					
12	#5460	<input type="checkbox"/>	CAT Membership		

☐ I am an "Active" CAT Rocketeer.

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Order Amount	Handling Charge
\$0 to \$15.00	\$1.50
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use a separate sheet of paper.)

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Amount This Order →
Add Balance Due Centuri From Previous Order →
Subtract Previous Order Credit (Credit Slip(s) Enclosed) →
TOTAL PAYMENT ENCLOSED

ORDER DATE
EFFECTIVE 1-1-82

CENTURI FLYING MODEL ROCKETS, P.O. Box 1988, Phoenix, AZ 85001 (\$10.00 Minimum Order For Credit Card Orders.)

Please Print Name And Address Below Unless It Appears On Label.
Correct Address On Label If Necessary.

310
705
715
702

Your Name _____
Address _____
City _____
State _____ Zip Code _____
Phone () _____ Birth Date / /
For Centuri Use Only CAT
1 _____ 2 _____ 3 _____

MOVED RECENTLY? If you have moved since your last order please give us your old address.

NAME _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____



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YOUR
ORDER!**



You may now charge your Centuri order on your VISA or Master Charge Card providing your order is \$10.00 or more. Simply fill in the information below.

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Expiration Date _____

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Be Sure To Enclose Special Offer Coupons

Place
Stamp
Here



CENTURI
FLYING MODEL ROCKETS

Centuri Engineering Co. Inc., Box 1988, Phoenix, AZ 85001

HOW TO ORDER — FOLLOW THESE EASY STEPS FOR BEST SERVICE

This order form replaces all previous order forms. Please be sure that you use the correct and full catalog number for each item when you order. All prices are subject to change without notice. **WHEN SENDING ORDER BE SURE TO GIVE ZIP CODE IN YOUR ADDRESS.**

PAYMENT ON ORDER

Full payment must accompany all orders unless Visa or Master Card is used. See Order Form (reverse side) for Visa and Master Card information. If you do not order by credit card, please send all remittances by either check or money order, both for your protection and our convenience. If you do send currency, be sure your envelope has sufficient postage, is properly sealed, and is addressed correctly to assure delivery. Coins should be attached to a separate sheet of paper, not to the order blank. Use a single strip of masking tape to hold the coins in place. Avoid the mailing of coins, as they are easily lost in the mail. We cannot assume responsibility for the loss of coins, currency, or orders in the mail.

Remember to include sufficient funds with your order. For your protection, we do not ship orders C.O.D. Proper attention to these details will result in speedier service for you.

IMPORTANT

Centuri model rocketry products are recommended for ages 10 to adult. Adult supervision is suggested for those under 12 years of age when flying model rockets.

Your order may, for various reasons, have to be shipped in more than one package. If all of your order does not come at the same time, please be patient and give the balance of the order time to arrive.
907.373E

NOTE: All foreign orders require additional postage. Please write for more information on postage and mailing restrictions.

PRIORITY MAIL (Air Mail) SERVICE

While Centuri specializes in fast service, sometimes extra speed is necessary. The Post Office offers a service called Priority Mail which gives packages and parcels the fastest handling and transportation possible. **PRIORITY MAIL CANNOT INCLUDE MODEL ROCKET ENGINES, AS ORDERS CONTAINING ENGINES CAN ONLY BE SHIPPED BY PARCEL POST OR UPS AT THIS TIME.**

PRIORITY MAIL may be requested for extra fast delivery but **PRIORITY MAIL CANNOT INCLUDE ENGINES** (or products containing engines, such as outfits) at this time. For other items for which you desire Priority Mail include 15% of the "Total for Merchandise." You will be charged only for the difference between Priority Mail and Parcel Post; any excess will be refunded.

A SPECIAL MESSAGE: Occasionally we make the addresses of customers available to other companies who produce products you may be interested in. This means that you may be receiving advertising and sales literature from these companies in your mail. If you do not wish your name and address to be used in this manner, please inform us in care of our Customer Services Department.

POSTAGE

Centuri ships all retail orders **POST-PAID** in the U.S. by regular land mail or UPS.

"Centuri is an equal opportunity employer."

Centuri

FULL ONE YEAR WARRANTY

Your Centuri product is warranted against defects in materials or workmanship for one year from the date of the original purchase. Any Centuri product which, because of a manufacturing mistake, malfunctions or proves to be defective within the one-year warranty period will be repaired or replaced, at Centuri's option and at no charge to you, provided it is returned to Centuri with proof of purchase.

This warranty does not cover incidental or consequential damage including injury or damage to persons or property caused by the use, abuse, misuse, failure to comply with operating instructions or improper storage of the warranted product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

For repair or replacement under this warranty, please return the defective part of your Centuri product with proof of purchase to: Centuri Customer Services Dept., P.O. Box 1988, Phoenix, AZ 85001.

TEAR HERE AND
INSERT IN ENVELOPE

Thank you for ordering

TEAR HERE AND
INSERT IN ENVELOPE

FOLD HERE AND SEAL

HAVE YOU ORDERED EVERYTHING YOU NEED? IS YOUR MONEY ORDER OR CHECK ENCLOSED? DID YOU CHECK YOUR MAILING ADDRESS AND ZIP? DID YOU FILL IN ALL CREDIT CARD INFORMATION? —HELP US TO SERVE YOU BETTER—

Your comments will assist us in providing you with better service and even more exciting products.

1. What types of scale models would you like to see Centuri produce?

2. Do you prefer ☐ Large or ☐ Small size models?
3. Do you think Centuri kits are generally ☐ Easy, ☐ Average or ☐ Difficult to assemble considering their recommended skill level?
4. Are Centuri kit instructions easy to follow? ☐ Yes ☐ No
5. Would you prefer more plastic parts for simpler assembly and better detail? ☐ Yes ☐ No
6. What Skill Level of kits do you prefer to build?
☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
7. My three favorite types of model rockets are
☐ Single Stage ☐ Scale Model ☐ Boost Glider
☐ Sport Flier ☐ Futuristic Design
☐ Magnum ☐ Multi-Stager
☐ "D" Powered ☐ Payload
8. I became interested in model rocketry because of:
☐ a friend ☐ film ☐ gift
☐ school ☐ magazine ad ☐ hobby shop
☐ rocket club ☐ saw a launch ☐ department store
☐ article ☐ comic book
☐ TV ☐ other _____
9. My favorite type of scale model is:
☐ Military Scale ☐ NASA Scale ☐ Sounding Scale
10. What product other than model rockets would you like to see Centuri produce:
☐ Electric RC Cars ☐ Kits ☐ Pre-Assembled
☐ Powered Boats ☐ Kits ☐ Pre-Assembled
☐ RC Airplanes ☐ Kits ☐ Pre-Assembled
☐ U-Control Airplanes ☐ Kits ☐ Pre-Assembled
☐ Solar Kits ☐ Construction Sets
☐ Slot Racing ☐ HO Scale ☐ 1/32nd. Scale
☐ Other _____
11. Age _____ Grade _____
12. ☐ Male ☐ Female

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